

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P573576

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-40 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-45-D010 FEU4C-X-90-40 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

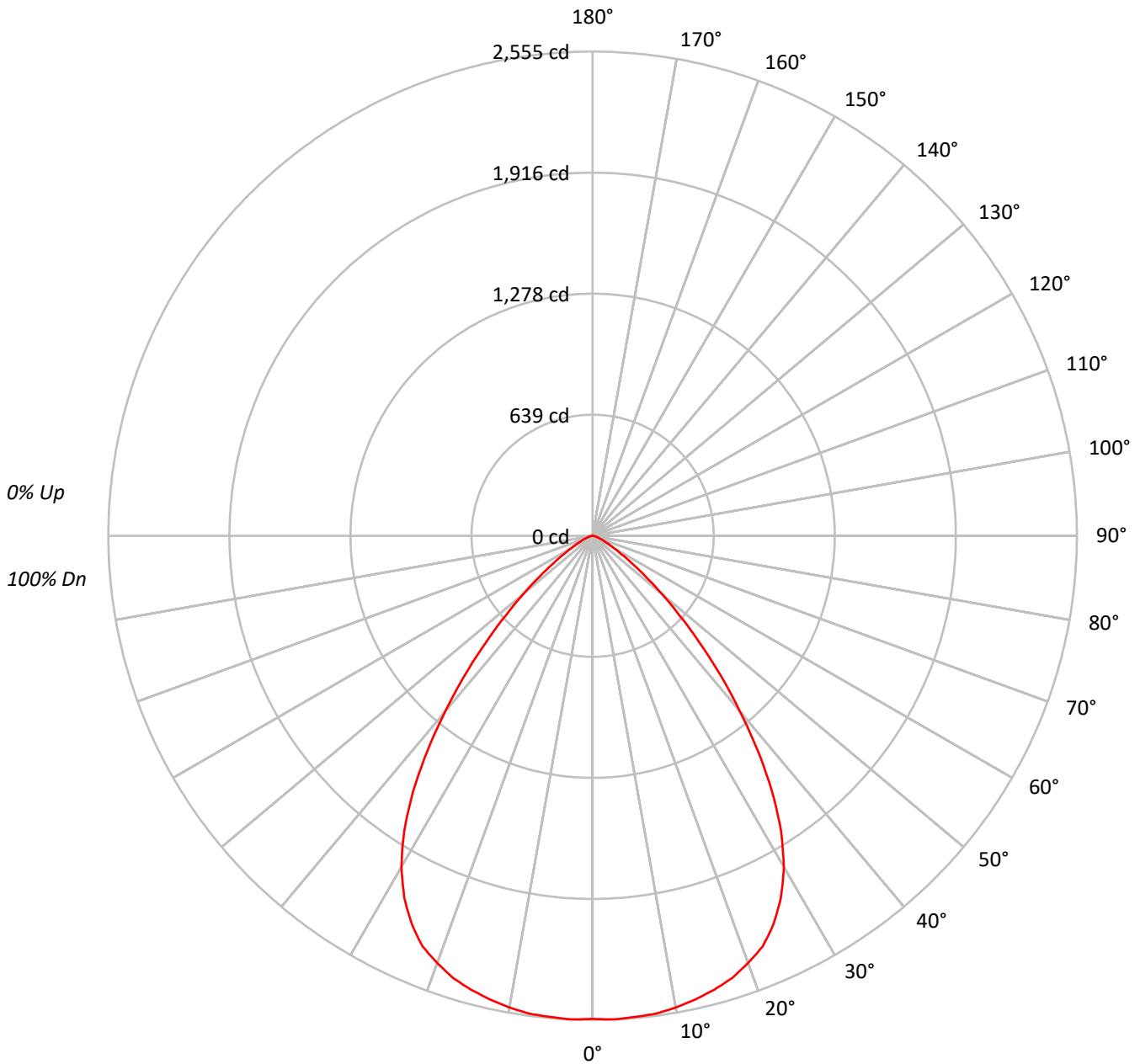
Lumens per Lamp: N/A
Luminaire Lumens: 3955.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	313178
5°	314374
10°	315327
15°	315348
20°	313614
25°	306270
30°	286257
35°	247896
40°	193651
45°	138941
50°	90250
55°	54018
60°	31622
65°	20291
70°	13506
75°	10205
80°	7570
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	6.1
10°-20°	699.5	17.7
20°-30°	1032.2	26.1
30°-40°	1018.6	25.8
40°-50°	623.4	15.8
50°-60°	239.0	6.0
60°-70°	74.7	1.9
70°-80°	21.9	0.6
80°-90°	2.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1974.5	49.9
0°-40°	2993.1	75.7
0°-60°	3855.4	97.5
0°-90°	3955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2549	
5°	2549	243
15°	2479	700
25°	2259	1032
35°	1653	1019
45°	800	623
55°	252	239
65°	70	75
75°	22	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2549.2
2.5°	2554.6
5°	2549.2
7.5°	2543.9
10°	2527.7
12.5°	2506.3
15°	2479.4
17.5°	2447.2
20°	2398.8
22.5°	2345.3
25°	2259.4
27.5°	2152.0
30°	2017.9
32.5°	1851.6
35°	1652.9
37.5°	1432.8
40°	1207.5
42.5°	998.2
45°	799.7
47.5°	622.4
50°	472.2
52.5°	348.9
55°	252.2
57.5°	177.0
60°	128.7
62.5°	96.7
65°	69.8
67.5°	53.7
70°	37.6
72.5°	26.9
75°	21.5
77.5°	10.7
80°	10.7
82.5°	5.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)